



1661 1611 2410
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Case No. 00-1278)

PATENT
RECEIVED

MAY 09 2001

TECH CENTER 1600/2900

In re Application of:

Lawton, et al.

Serial No.: 09/765,739

Filed: January 18, 2001

For: Compositions and Methods for the Detection of
Ehrlichia Canis and Ehrlichia Chaffensis
Antibodies

Art Unit: To be assigned

Examiner: To be assigned

Commissioner for Patents
Washington, D.C. 20231

TRANSMITTAL LETTER

1. We are transmitting herewith the attached papers for the above identified new patent application:

☐ Patent Specification (pages, including cover sheet, claims, and abstract)

☐ Drawings (sheets)

☒ Return Postcard

☒ Other: Information Disclosure Statement (IDS) PTO-1449 Form, Copies of IDS
Citations for 09/765,739, No Fee Required

2. ☐ A check in the amount of \$ is enclosed for the Filing Fee.

☐ Please charge the total filing fee of \$ to our Deposit Account No. 13-2490. A duplicate copy of this sheet is enclosed.

3. **GENERAL AUTHORIZATION TO CHARGE OR CREDIT FEES:** Please charge any additional fees or credit overpayment to Deposit Account No. 13-2490. A duplicate copy of this sheet is enclosed.

4. **CERTIFICATE OF MAILING UNDER 37 CFR § 1.8:** The undersigned hereby certifies that this Transmittal Letter and the paper, as described in paragraph 1 hereinabove, are being deposited with the United States Postal Service with sufficient postage as "First Class Mail" in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on this 12 day of April, 2001.

By:

Lisa M.W. Hillman

Registration No. 43,637



UNITED STATES PATENT AND TRADEMARK OFFICE
(Case No. 00-1278)

PATENT RECEIVED

MAY 09 2001

TECH CENTER 1600/2900

In the Application of:)
)
 Lawton, et al.)
)
 Serial No.: **09/765,739**)
)
 Filed: **January 18, 2001**)
)
 For: **Compositions and Methods for Detection**)
 Of Ehrlichia Canis and Ehrlichia)
 Chaffeensis Antibodies)

Art Unit: To be assigned

Examiner: To be assigned

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Pursuant to the duty of disclosure provided by 35 C.F.R. § 1.56 and §§ 1.97-98, the applicants wish to make the following references of record in the above-identified application. Copies of the references are enclosed. Copies are also listed in the PTO-1449 form enclosed herewith. It is requested that the documents be given careful consideration and that they be cited of record in the prosecution history of the present application so that they will appear on the face of the patent issuing from the present application.

In the judgment of the undersigned, portions of the references may be material to the examination of the pending claims, however no such admission is intended. 37 C.F.R. 1.97 (h). The references have not been reviewed in sufficient detail to make any other representation and, in particular, no representation is intended as to the relative

importance of any portion of the references. This Statement is not a representation that the cited references have effective dates early enough to be "prior art" within the meaning of 35 U.S.C. sections 102 or 103.

CITED REFERENCES

U.S. Patent Documents

<u>Document Number</u>	<u>Date</u>	<u>Name</u>	<u>Class</u>	<u>Filing Date If appropriate</u>
5,726,010	3/10/98	Clark	435	7/31/91
6,025,338	2/15/00	Barbet et al.	514	10/17/96

Foreign Documents

<u>Document Number</u>	<u>Date</u>	<u>Name</u>	<u>Priority Filing Date if appropriate</u>
WO 99/13720	3/25/99	Rikihisa, et al.	9/19/97

Other Documents

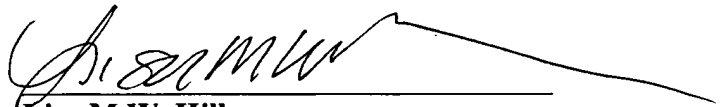
- 1) Ohashi, et al., "Immunodominant Major Outer Membrane Proteins of *Ehrlichia chaffeensis* Are Encoded by a Polymorphic Multigene Family", *Infection and Immunity*, 66, p. 132-139, Jan. 1998.
- 2) Ohashi, et al., "Cloning and Characterization of Multigenes Encoding the Immunodominant 30-Kilodalton Major Outer Membrane Proteins of *Ehrlichia canis* and Application of the Recombinant Protein for Serodiagnosis", *Journal of Clinical Microbiology*, 36, p. 2671-2680, Sept. 1998.
- 3) Yu, et al., "Genetic Diverstiy of the 28-Kilodalton Outer Membrane Protein Gene in Human Isolates of *Ehrlichia chaffeensis*", *Journal of Clinical Microbiology*, 37, p. 1137-1143, Apr. 1999.
- 4) McBride, et al., "Molecular Cloning of the Gene for a Conserved Major Immunoreactive 28-Kilodalton Protein of *Ehrlichia canis*: a Potential Serodiagnostic Antigen", *Clinical and Diagnostic Laboratory Immunology*, 6, p. 392-399, May 1999.
- 5) Yu, et al., "Comparison of *Ehrlichia chaffeensis* Recombinant Proteins for Serologic Diagnosis of Human Monocytotropic Ehrlichiosis", *Journal of Clinical Microbiology*, 37, p. 2568-2575, Aug. 1999.

- 6) Yu, et al., "*Characterization of the Complete Transcriptionally Active Ehrlichia chaffeensis 28 kDa Outer Membrane Protein Multigene Family*", *Gene* 248, p. 59-68, 2000.
- 7) McBride, et al., "*A Conserved, Transcriptionally Action p28 Multigene Locus of Ehrlichia canis*", *Gene* 254, p. 245-252, 2000.
- 8) Suksawat, et al., "*Seroprevalence of Ehrlichia Canis, Ehrlichia Equi and Ehrlichia Risticii in Sick Dogs from North Carolina and Virginia*", *Journal Vet. Internal. Med.* 14, p. 50, 2000.

Respectfully submitted,

Date: April 12, 2001

by:



Lisa M.W. Hillman

Reg. No. 43,637